Appendix 5A
EJSCREEN Tool Analysis

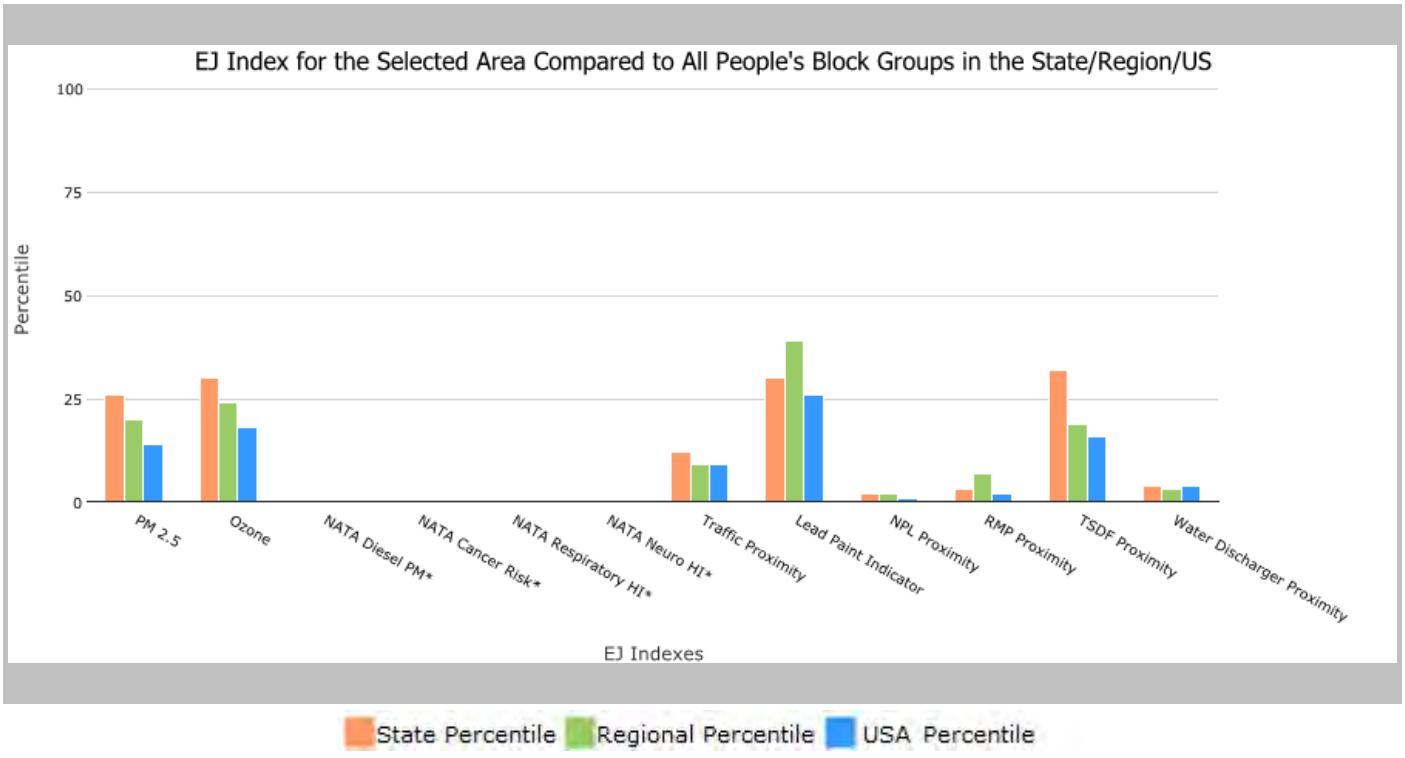
EJSCREEN Report

for .5 mile Ring around the Corridor, MISSOURI, EPA Region 7

Approximate Population: 133

Fenton

Selected Variables	State Percentile	EPA Region Percentile	USA Percentile
EJ Indexes			
EJ Index for PM2.5	26	20	14
EJ Index for Ozone	30	24	18
EJ Index for NATA Diesel PM*	N/A	N/A	N/A
EJ Index for NATA Air Toxics Cancer Risk*	N/A	N/A	N/A
EJ Index for NATA Respiratory Hazard Index*	N/A	N/A	N/A
EJ Index for NATA Neurological Hazard Index*	N/A	N/A	N/A
EJ Index for Traffic Proximity and Volume	12	9	9
EJ Index for Lead Paint Indicator	30	39	26
EJ Index for Proximity to NPL sites	2	2	1
EJ Index for Proximity to RMP sites	3	7	2
EJ Index for Proximity to TSDFs	32	19	16
EJ Index for Proximity to Major Direct Dischargers	4	3	4



This report shows environmental, demographic, and EJ indicator values. It shows environmental and demographic raw data (e.g., the estimated concentration of ozone in the air), and also shows what percentile each raw data value represents. These percentiles provide perspective on how the selected block group or buffer area compares to the entire state, EPA region, or nation. For example, if a given location is at the 95th percentile nationwide, this means that only 5 percent of the US population has a higher block group value than the average person in the location being analyzed. The years for which the data are available, and the methods used, vary across these indicators. Important caveats and uncertainties apply to this screening-level information, so it is essential to understand the limitations on appropriate interpretations and applications of these indicators. Please see EJSCREEN documentation for discussion of these issues before using reports.

EJSCREEN Report

for .5 mile Ring around the Corridor, MISSOURI, EPA Region 7

Approximate Population: 133

Fenton

June 18, 2015

Digitized Line

Buffer Area

1:36,112

0 0.3 0.6 1.2 mi

0 0.5 1 2 km

Image courtesy of USGS © 2015 Microsoft Corporation © 2015 HERE © AND

EJSCREEN Report

for .5 mile Ring around the Corridor, MISSOURI, EPA Region 7

Approximate Population: 133

Fenton

Selected Variables	Raw Data	State Avg.	%ile in State	EPA Region Avg.	%ile in EPA Region	USA Avg.	%ile in USA
Environmental Indicators							
Particulate Matter (PM 2.5 in µg/m^3)	12.1	10.8	81	10.1	91	9.78	93
Ozone (ppb)	49.1	48.4	59	46.5	67	46.1	66
NATA Diesel PM (µg/m^3)*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NATA Cancer Risk (lifetime risk per million)*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NATA Respiratory Hazard Index*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NATA Neurological Hazard Index*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Traffic Proximity and Volume (daily traffic count/distance to road)	100	66	82	61	84	110	74
Lead Paint Indicator (% Pre-1960 Housing)	0.26	0.31	55	0.37	45	0.3	55
NPL Proximity (site count/km distance)	0.46	0.075	99	0.074	98	0.096	97
RMP Proximity (facility count/km distance)	1.2	0.28	95	0.41	91	0.31	95
TSDF Proximity (facility count/km distance)	0.032	0.054	59	0.038	73	0.054	60
Water Discharger Proximity (facility count/km distance)	0.74	0.17	97	0.18	96	0.25	93
Demographic Indicators							
Demographic Index	21%	27%	47	25%	52	35%	35
Minority Population	10%	19%	52	18%	51	36%	26
Low Income Population	32%	35%	49	33%	54	34%	53
Linguistically Isolated Population	1%	1%	76	2%	72	5%	51
Population With Less Than High School Education	16%	13%	68	11%	75	14%	64
Population Under 5 years of age	3%	6%	17	7%	16	7%	18
Population over 64 years of age	9%	14%	28	14%	30	13%	37

* The National-scale Air Toxics Assessment (NATA) environmental indicators and EJ indexes, which include cancer risk, respiratory hazard, neurodevelopment hazard, and diesel particulate matter will be added into EJSCREEN during the first full public update after the soon-to-be-released 2011 dataset is made available. The National-Scale Air Toxics Assessment (NATA) is EPA's ongoing, comprehensive evaluation of air toxics in the United States. EPA developed the NATA to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that NATA provides broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. More information on the NATA analysis can be found at: http://www.epa.gov/ttn/atw/natamain/index.html.

For additional information, see: www.epa.gov/environmentaljustice

EJSCREEN is a screening tool for pre-decisional use only. It can help identify areas that may warrant additional consideration, analysis, or outreach. It does not provide a basis for decision-making, but it may help identify potential areas of EJ concern. Users should keep in mind that screening tools are subject to substantial uncertainty in their demographic and environmental data, particularly when looking at small geographic areas. Important caveats and uncertainties apply to this screening-level information, so it is essential to understand the limitations on appropriate interpretations and applications of these indicators. Please see EJSCREEN documentation for discussion of these issues before using reports. This screening tool does not provide data on every environmental impact and demographic factor that may be relevant to a particular location. EJSCREEN outputs should be supplemented with additional information and local knowledge before taking any action to address potential EJ concerns.

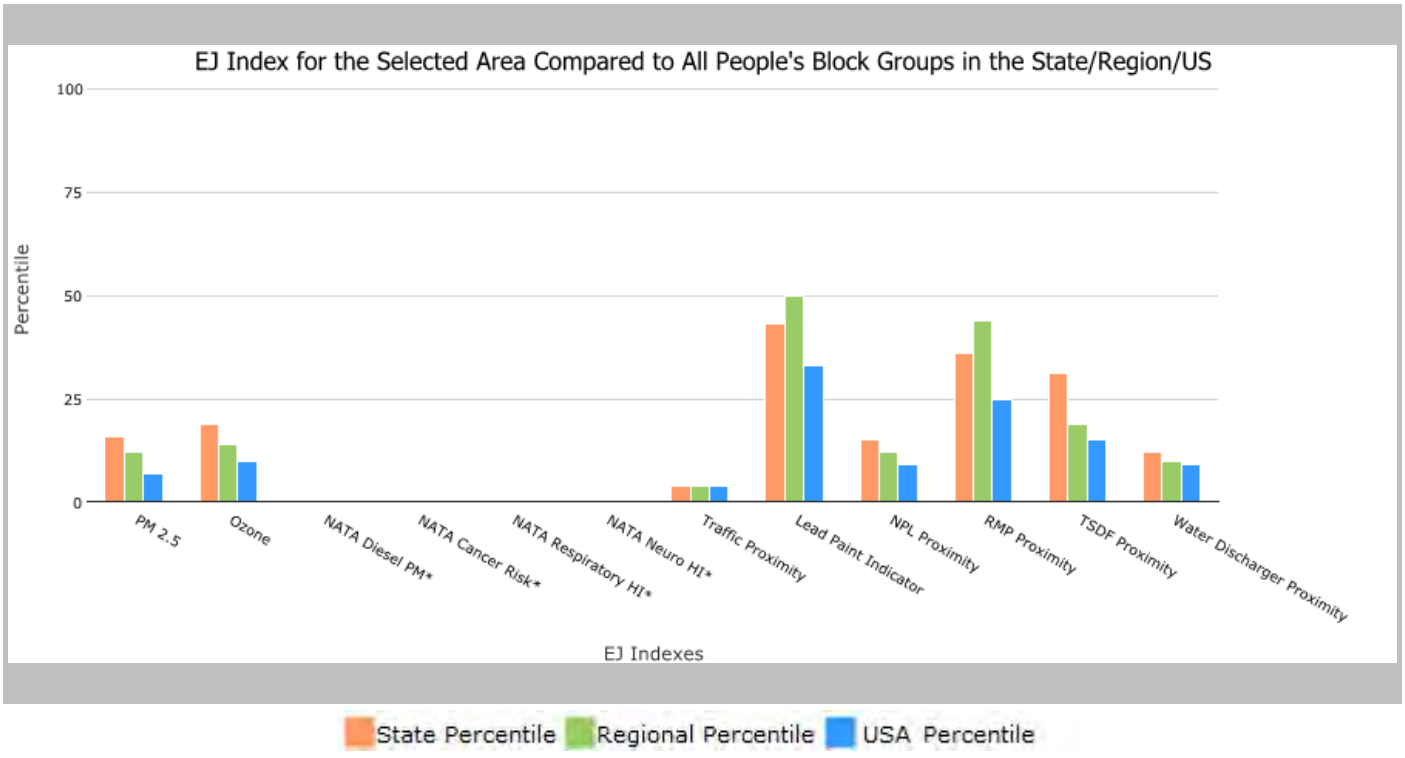
EJSCREEN Report

for .5 mile Ring around the Corridor, MISSOURI, EPA Region 7

Approximate Population: 3928

Mehlville

Selected Variables	State Percentile	EPA Region Percentile	USA Percentile
EJ Indexes			
EJ Index for PM2.5	16	12	7
EJ Index for Ozone	19	14	10
EJ Index for NATA Diesel PM*	N/A	N/A	N/A
EJ Index for NATA Air Toxics Cancer Risk*	N/A	N/A	N/A
EJ Index for NATA Respiratory Hazard Index*	N/A	N/A	N/A
EJ Index for NATA Neurological Hazard Index*	N/A	N/A	N/A
EJ Index for Traffic Proximity and Volume	4	4	4
EJ Index for Lead Paint Indicator	43	50	33
EJ Index for Proximity to NPL sites	15	12	9
EJ Index for Proximity to RMP sites	36	44	25
EJ Index for Proximity to TSDFs	31	19	15
EJ Index for Proximity to Major Direct Dischargers	12	10	9



This report shows environmental, demographic, and EJ indicator values. It shows environmental and demographic raw data (e.g., the estimated concentration of ozone in the air), and also shows what percentile each raw data value represents. These percentiles provide perspective on how the selected block group or buffer area compares to the entire state, EPA region, or nation. For example, if a given location is at the 95th percentile nationwide, this means that only 5 percent of the US population has a higher block group value than the average person in the location being analyzed. The years for which the data are available, and the methods used, vary across these indicators. Important caveats and uncertainties apply to this screening-level information, so it is essential to understand the limitations on appropriate interpretations and applications of these indicators. Please see EJSCREEN documentation for discussion of these issues before using reports.

EJSCREEN Report

for .5 mile Ring around the Corridor, MISSOURI, EPA Region 7

Approximate Population: 3928

Mehlville

EJSCREEN Report

for .5 mile Ring around the Corridor, MISSOURI, EPA Region 7

Approximate Population: 3928

Mehlville

Selected Variables	Raw Data	State Avg.	%ile in State	EPA Region Avg.	%ile in EPA Region	USA Avg.	%ile in USA
Environmental Indicators							
Particulate Matter (PM 2.5 in µg/m^3)	11.9	10.8	79	10.1	91	9.78	91
Ozone (ppb)	49.5	48.4	72	46.5	74	46.1	69
NATA Diesel PM (µg/m^3)*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NATA Cancer Risk (lifetime risk per million)*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NATA Respiratory Hazard Index*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NATA Neurological Hazard Index*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Traffic Proximity and Volume (daily traffic count/distance to road)	120	66	85	61	86	110	77
Lead Paint Indicator (% Pre-1960 Housing)	0.071	0.31	24	0.37	22	0.3	30
NPL Proximity (site count/km distance)	0.083	0.075	68	0.074	74	0.096	68
RMP Proximity (facility count/km distance)	0.081	0.28	31	0.41	18	0.31	27
TSDF Proximity (facility count/km distance)	0.023	0.054	43	0.038	64	0.054	50
Water Discharger Proximity (facility count/km distance)	0.2	0.17	77	0.18	75	0.25	69
Demographic Indicators							
Demographic Index	10%	27%	12	25%	14	35%	9
Minority Population	5%	19%	30	18%	29	36%	14
Low Income Population	15%	35%	17	33%	19	34%	22
Linguistically Isolated Population	1%	1%	75	2%	71	5%	50
Population With Less Than High School Education	9%	13%	43	11%	53	14%	44
Population Under 5 years of age	3%	6%	15	7%	13	7%	15
Population over 64 years of age	25%	14%	91	14%	91	13%	92

* The National-scale Air Toxics Assessment (NATA) environmental indicators and EJ indexes, which include cancer risk, respiratory hazard, neurodevelopment hazard, and diesel particulate matter will be added into EJSCREEN during the first full public update after the soon-to-be-released 2011 dataset is made available. The National-Scale Air Toxics Assessment (NATA) is EPA's ongoing, comprehensive evaluation of air toxics in the United States. EPA developed the NATA to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that NATA provides broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. More information on the NATA analysis can be found at: http://www.epa.gov/ttn/atw/natamain/index.html.

For additional information, see: www.epa.gov/environmentaljustice

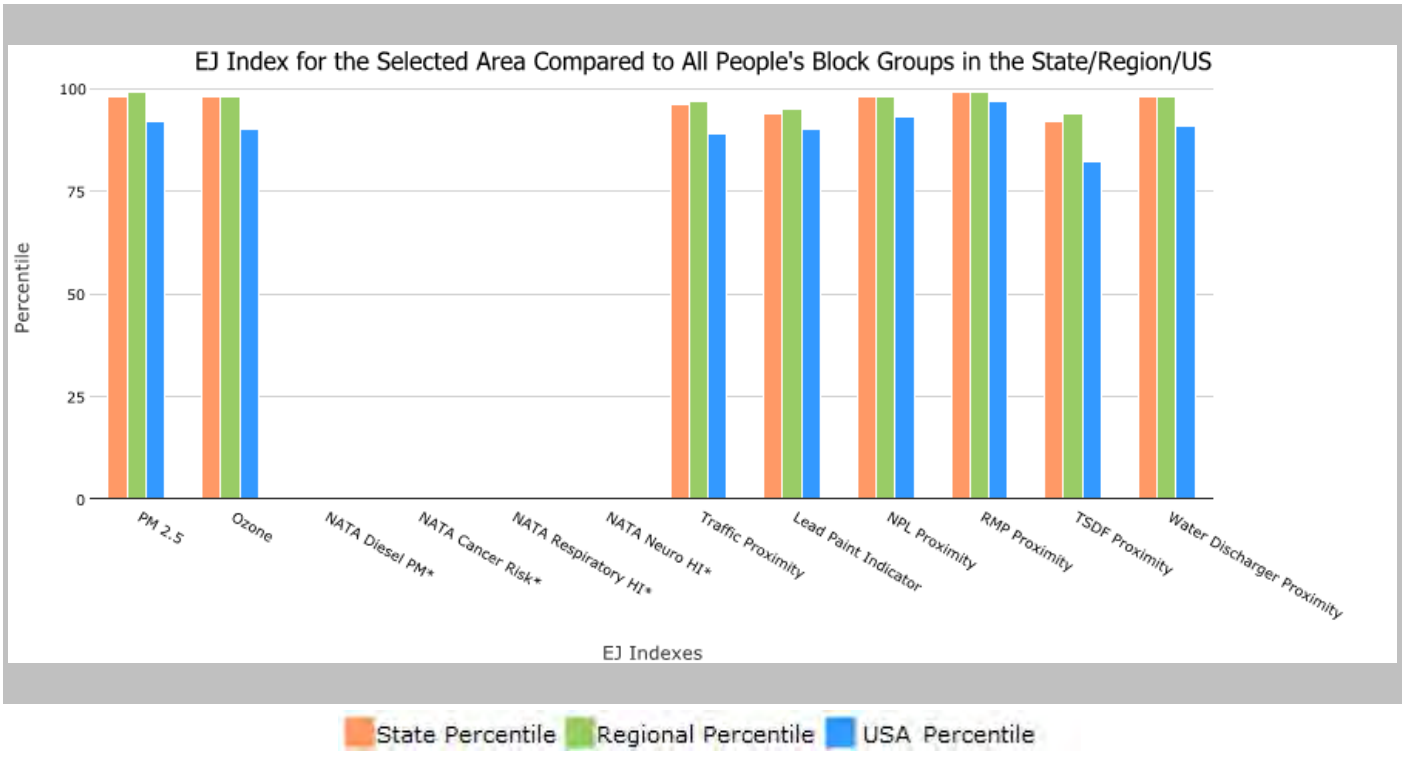
EJSCREEN is a screening tool for pre-decisional use only. It can help identify areas that may warrant additional consideration, analysis, or outreach. It does not provide a basis for decision-making, but it may help identify potential areas of EJ concern. Users should keep in mind that screening tools are subject to substantial uncertainty in their demographic and environmental data, particularly when looking at small geographic areas. Important caveats and uncertainties apply to this screening-level information, so it is essential to understand the limitations on appropriate interpretations and applications of these indicators. Please see EJSCREEN documentation for discussion of these issues before using reports. This screening tool does not provide data on every environmental impact and demographic factor that may be relevant to a particular location. EJSCREEN outputs should be supplemented with additional information and local knowledge before taking any action to address potential EJ concerns.

EJSCREEN Report

for .5 mile Ring around the Area, MISSOURI, EPA Region 7

Approximate Population: 8367
St. Louis City Site

Selected Variables	State Percentile	EPA Region Percentile	USA Percentile
EJ Indexes			
EJ Index for PM2.5	98	99	92
EJ Index for Ozone	98	98	90
EJ Index for NATA Diesel PM*	N/A	N/A	N/A
EJ Index for NATA Air Toxics Cancer Risk*	N/A	N/A	N/A
EJ Index for NATA Respiratory Hazard Index*	N/A	N/A	N/A
EJ Index for NATA Neurological Hazard Index*	N/A	N/A	N/A
EJ Index for Traffic Proximity and Volume	96	97	89
EJ Index for Lead Paint Indicator	94	95	90
EJ Index for Proximity to NPL sites	98	98	93
EJ Index for Proximity to RMP sites	99	99	97
EJ Index for Proximity to TSDFs	92	94	82
EJ Index for Proximity to Major Direct Dischargers	98	98	91

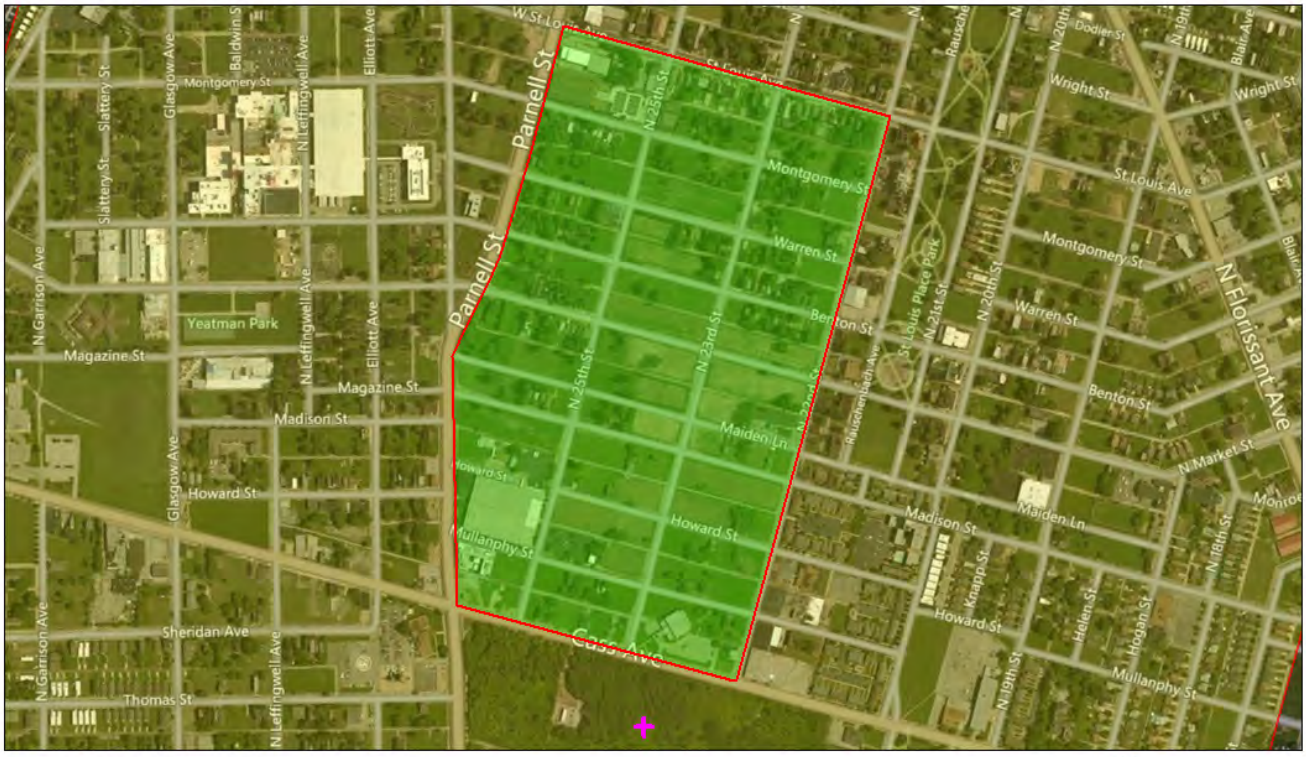


This report shows environmental, demographic, and EJ indicator values. It shows environmental and demographic raw data (e.g., the estimated concentration of ozone in the air), and also shows what percentile each raw data value represents. These percentiles provide perspective on how the selected block group or buffer area compares to the entire state, EPA region, or nation. For example, if a given location is at the 95th percentile nationwide, this means that only 5 percent of the US population has a higher block group value than the average person in the location being analyzed. The years for which the data are available, and the methods used, vary across these indicators. Important caveats and uncertainties apply to this screening-level information, so it is essential to understand the limitations on appropriate interpretations and applications of these indicators. Please see EJSCREEN documentation for discussion of these issues before using reports.

EJSCREEN Report

for .5 mile Ring around the Area, MISSOURI, EPA Region 7

Approximate Population: 8367



EJSCREEN Report

for .5 mile Ring around the Area, MISSOURI, EPA Region 7

Approximate Population: 8367

Selected Variables	Raw Data	State Avg.	%ile in State	EPA Region Avg.	%ile in EPA Region	USA Avg.	%ile in USA
Environmental Indicators							
Particulate Matter (PM 2.5 in µg/m^3)	12.7	10.8	92	10.1	96	9.78	97
Ozone (ppb)	49.1	48.4	61	46.5	68	46.1	67
NATA Diesel PM (µg/m^3)*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NATA Cancer Risk (lifetime risk per million)*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NATA Respiratory Hazard Index*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NATA Neurological Hazard Index*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Traffic Proximity and Volume (daily traffic count/distance to road)	130	66	87	61	89	110	80
Lead Paint Indicator (% Pre-1960 Housing)	0.45	0.31	73	0.37	63	0.3	71
NPL Proximity (site count/km distance)	0.14	0.075	87	0.074	87	0.096	83
RMP Proximity (facility count/km distance)	1.7	0.28	98	0.41	96	0.31	97
TSDF Proximity (facility count/km distance)	0.021	0.054	39	0.038	62	0.054	48
Water Discharger Proximity (facility count/km distance)	0.26	0.17	85	0.18	82	0.25	77
Demographic Indicators							
Demographic Index	85%	27%	98	25%	99	35%	97
Minority Population	93%	19%	96	18%	98	36%	92
Low Income Population	77%	35%	97	33%	97	34%	96
Linguistically Isolated Population	1%	1%	77	2%	73	5%	52
Population With Less Than High School Education	30%	13%	93	11%	94	14%	87
Population Under 5 years of age	9%	6%	77	7%	75	7%	75
Population over 64 years of age	10%	14%	32	14%	33	13%	40

* The National-scale Air Toxics Assessment (NATA) environmental indicators and EJ indexes, which include cancer risk, respiratory hazard, neurodevelopment hazard, and diesel particulate matter will be added into EJSCREEN during the first full public update after the soon-to-be-released 2011 dataset is made available. The National-Scale Air Toxics Assessment (NATA) is EPA's ongoing, comprehensive evaluation of air toxics in the United States. EPA developed the NATA to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that NATA provides broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. More information on the NATA analysis can be found at: http://www.epa.gov/ttn/atw/natamain/index.html.

For additional information, see: www.epa.gov/environmentaljustice

EJSCREEN is a screening tool for pre-decisional use only. It can help identify areas that may warrant additional consideration, analysis, or outreach. It does not provide a basis for decision-making, but it may help identify potential areas of EJ concern. Users should keep in mind that screening tools are subject to substantial uncertainty in their demographic and environmental data, particularly when looking at small geographic areas. Important caveats and uncertainties apply to this screening-level information, so it is essential to understand the limitations on appropriate interpretations and applications of these indicators. Please see EJSCREEN documentation for discussion of these issues before using reports. This screening tool does not provide data on every environmental impact and demographic factor that may be relevant to a particular location. EJSCREEN outputs should be supplemented with additional information and local knowledge before taking any action to address potential EJ concerns.

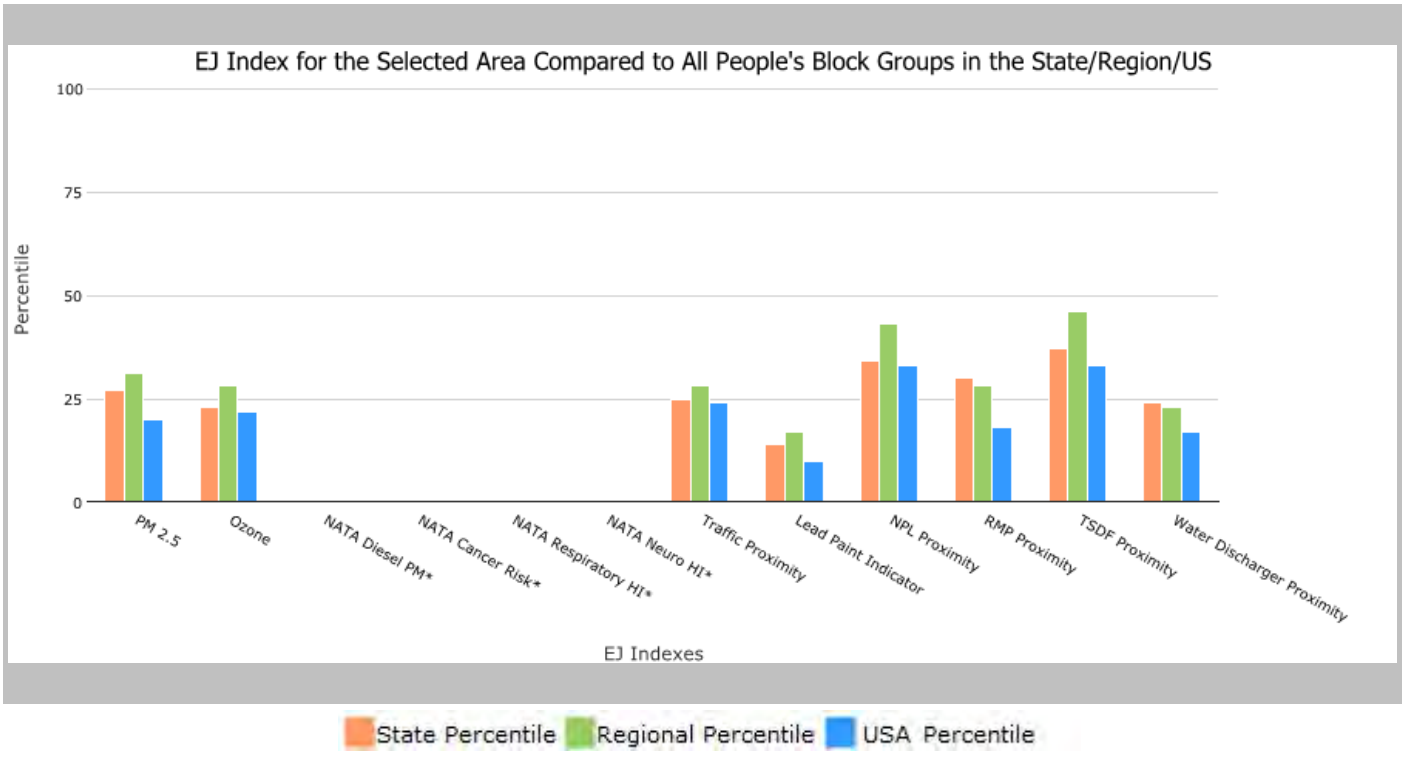
EJSCREEN Report

for .5 mile Ring around the Corridor, ILLINOIS, EPA Region 5

Approximate Population: 2

St. Clair County

Selected Variables	State Percentile	EPA Region Percentile	USA Percentile
EJ Indexes			
EJ Index for PM2.5	27	31	20
EJ Index for Ozone	23	28	22
EJ Index for NATA Diesel PM*	N/A	N/A	N/A
EJ Index for NATA Air Toxics Cancer Risk*	N/A	N/A	N/A
EJ Index for NATA Respiratory Hazard Index*	N/A	N/A	N/A
EJ Index for NATA Neurological Hazard Index*	N/A	N/A	N/A
EJ Index for Traffic Proximity and Volume	25	28	24
EJ Index for Lead Paint Indicator	14	17	10
EJ Index for Proximity to NPL sites	34	43	33
EJ Index for Proximity to RMP sites	30	28	18
EJ Index for Proximity to TSDFs	37	46	33
EJ Index for Proximity to Major Direct Dischargers	24	23	17



This report shows environmental, demographic, and EJ indicator values. It shows environmental and demographic raw data (e.g., the estimated concentration of ozone in the air), and also shows what percentile each raw data value represents. These percentiles provide perspective on how the selected block group or buffer area compares to the entire state, EPA region, or nation. For example, if a given location is at the 95th percentile nationwide, this means that only 5 percent of the US population has a higher block group value than the average person in the location being analyzed. The years for which the data are available, and the methods used, vary across these indicators. Important caveats and uncertainties apply to this screening-level information, so it is essential to understand the limitations on appropriate interpretations and applications of these indicators. Please see EJSCREEN documentation for discussion of these issues before using reports.

EJSCREEN Report

for .5 mile Ring around the Corridor, ILLINOIS, EPA Region 5

Approximate Population: 2

St. Clair County

June 18, 2015

Digitized Line

Buffer Area

1:36,112

0 0.3 0.6 1.2 mi

0 0.5 1 2 km

Image courtesy of USGS © 2015 Microsoft Corporation © 2015 HERE © AND

EJSCREEN Report

for .5 mile Ring around the Corridor, ILLINOIS, EPA Region 5

Approximate Population: 2

St. Clair County

Selected Variables	Raw Data	State Avg.	%ile in State	EPA Region Avg.	%ile in EPA Region	USA Avg.	%ile in USA
Environmental Indicators							
Particulate Matter (PM 2.5 in µg/m^3)	10.9	11.4	38	10.8	57	9.78	76
Ozone (ppb)	49.6	44.1	95	44.4	93	46.1	70
NATA Diesel PM (µg/m^3)*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NATA Cancer Risk (lifetime risk per million)*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NATA Respiratory Hazard Index*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NATA Neurological Hazard Index*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Traffic Proximity and Volume (daily traffic count/distance to road)	28	69	49	69	52	110	44
Lead Paint Indicator (% Pre-1960 Housing)	0.4	0.43	48	0.4	56	0.3	67
NPL Proximity (site count/km distance)	0.027	0.069	29	0.086	30	0.096	31
RMP Proximity (facility count/km distance)	0.18	0.43	41	0.33	55	0.31	59
TSDF Proximity (facility count/km distance)	0.011	0.037	22	0.051	22	0.054	31
Water Discharger Proximity (facility count/km distance)	0.19	0.27	59	0.23	65	0.25	66
Demographic Indicators							
Demographic Index	23%	34%	45	28%	55	35%	39
Minority Population	16%	36%	36	24%	57	36%	36
Low Income Population	30%	31%	55	32%	53	34%	49
Linguistically Isolated Population	0%	5%	44	2%	59	5%	45
Population With Less Than High School Education	7%	13%	36	12%	36	14%	32
Population Under 5 years of age	4%	6%	28	6%	29	7%	28
Population over 64 years of age	25%	13%	93	13%	92	13%	92

* The National-scale Air Toxics Assessment (NATA) environmental indicators and EJ indexes, which include cancer risk, respiratory hazard, neurodevelopment hazard, and diesel particulate matter will be added into EJSCREEN during the first full public update after the soon-to-be-released 2011 dataset is made available. The National-Scale Air Toxics Assessment (NATA) is EPA's ongoing, comprehensive evaluation of air toxics in the United States. EPA developed the NATA to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that NATA provides broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. More information on the NATA analysis can be found at: http://www.epa.gov/ttn/atw/natamain/index.html.

For additional information, see: www.epa.gov/environmentaljustice

EJSCREEN is a screening tool for pre-decisional use only. It can help identify areas that may warrant additional consideration, analysis, or outreach. It does not provide a basis for decision-making, but it may help identify potential areas of EJ concern. Users should keep in mind that screening tools are subject to substantial uncertainty in their demographic and environmental data, particularly when looking at small geographic areas. Important caveats and uncertainties apply to this screening-level information, so it is essential to understand the limitations on appropriate interpretations and applications of these indicators. Please see EJSCREEN documentation for discussion of these issues before using reports. This screening tool does not provide data on every environmental impact and demographic factor that may be relevant to a particular location. EJSCREEN outputs should be supplemented with additional information and local knowledge before taking any action to address potential EJ concerns.